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Basic Imagery Interpretation Report



**NATIONAL
PHOTOGRAPHIC
INTERPRETATION
CENTER**

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DUDINKA TROPOSCATTER FACILITY

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**DEPLOYED COMM/ELEC/RADAR FACILITIES
USSR
FEBRUARY 1969**

COPY NO. 105

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INSTALLATION OR ACTIVITY NAME

Dudinka Troposcatter Facility

COUNTRY

UR

UTM COORDINATES

NA

GEOGRAPHIC COORDINATES

69-22-45N 087-06-30E

MAP REFERENCE

ACIC.

US Air Target Chart 200, Sheet M048-20HL, 3d ed, Dec 65, Scale 1:200,000

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LATEST IMAGERY USED

NEGATION DATE (if required)

NA

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ABSTRACT

The Dudinka Troposcatter Facility is one of 43 photographically identified relay points within the Siberian Arctic Troposcatter Communications Network, also known as the Gorizont system. The function of this facility apparently is to provide reliable communications throughout the Siberian region of the USSR. When completed, the facility will have two Type IIA antennas propagating east, two Type IIA antennas propagating west, and two Type II antennas propagating south.

INTRODUCTION

The Dudinka Troposcatter facility is 19 nautical miles (nm) east of Dudinka and 23 nm west of Norilsk at an elevation of 330 feet (Figure 1). It is a relay point for east-west/north-south troposcatter communications within the Soviet Gorizont troposcatter network.

BASIC DESCRIPTION**PHYSICAL FEATURES**

The unsecured facility contains one pair (two antennas) of Type II troposcatter antennas and two pairs (four antennas) of Type IIA troposcatter antennas. The Type II antennas have a propagation azimuth of [REDACTED] and a correspondent at Igarka. 1/ One pair of the Type IIA antennas has one antenna complete and the other under construction. The propagation azimuth is [REDACTED] with a possible correspondent in the Gyda area, although the correspondent has not been photographically observed. The other pair of Type IIA antennas also has one antenna complete and the other under construction. The propagation azimuth of these two antennas could not be projected, but the correspondent is probably in Volchanka.

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FIGURE 1. DUDINKA TROPOSCATTER FACILITY.

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Onsite control/support buildings consist of one transmitter building, and two control/support buildings measuring [REDACTED]. The major support element for this facility could not be identified, but is probably in either the town of Dudinka or Norilsk.

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STATUS AND ACTIVITY

This facility was first observed in [REDACTED] on photography of poor interpretability. Two parallel control/support buildings were the only identifiable features. On [REDACTED] photography, two Type II troposcatter antennas were observed as complete and two more possible antennas were under construction. [REDACTED] photography revealed that two type IIA antennas had been constructed and two more were under construction.

REFERENCES

IMAGERY

MAPS OR CHARTS

ACIC. US Air Target Chart 200, Sheet M048-20HL, 3d ed, Dec 65, Scale 1:200,000 (SECRET/

DOCUMENT

1. NPIC. [REDACTED] Soviet Troposcatter Communications Facilities, Aug 67 (TOP SECRET

REQUIREMENT

COMIREX BR-C/001-69
NPIC Project 210604

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